**System**

SQL> create user sanket identified by sanket;

User created.

SQL> create user shripad identified by shripad;

User created.

SQL> create user vinay identified by vinay;

User created.

SQL>

SQL> GRANT CONNECT TO sanket,shripad,vinay;

Grant succeeded.

SQL> GRANT CONNECT, RESOURCE, DBA TO sanket,shripad,vinay;

Grant succeeded.

SQL> GRANT CREATE SESSION TO sanket,shripad,vinay;

Grant succeeded.

SQL> GRANT UNLIMITED TABLESPACE TO sanket,shripad,vinay;

Grant succeeded.

**Sanket**

create table employee(eid int not null primary key,ename varchar(25),age int,salary real,gender varchar(6),address varchar(30),phone\_no varchar(15),date\_of\_joining varchar(10),did int,designation varchar(10));

Table created.

SQL>

create table project(pno int not null primary key,pname varchar(25),budget real,deadline varchar(10),location varchar(15));

Create table department(did int not null primary key,dname varchar(15),location varchar(15));

Create table hr(username varchar(20) not null,password varchar(20) not null);

Create table payroll(eid int primary key,tax real,gross\_salary real,net\_salary real, foreign key(eid) references employee(eid),leaves int);

Create table works\_on(eid int,pno int,duration varchar(10),start\_date varchar(10), foreign key(eid) references employee(eid), foreign key(pno) references project(pno));

Create table controls(did int,pno int,foreign key(pno) references project(pno),foreign key(did) references department(did));

Create public database link san\_shri connect to shripad identified by shripad using 'ddbemp';

Create public database link san\_vin connect to vinay identified by vinay using 'ddbemp';

Create or replace trigger emp\_age

After insert

On employee

For each row

Begin

If :new.age<50 then

Insert into employee1@san\_shri values(:new.eid,:new.ename,:new.age,:new.salary,:new.gender,:new.address,:new.phone\_no,:new.date\_of\_joining,:new.did,:new.designation);

Else

Insert into employee2@san\_vin values(:new.eid,:new.ename,:new.age,:new.salary,:new.gender,:new.address,:new.phone\_no,:new.date\_of\_joining,:new.did,:new.designation);

End if;

End;

/

Create or replace trigger emp\_upage

After update

On employee

For each row

Begin

If :new.age<50 then

update employee1@san\_shri set eid=:new.eid,ename=:new.ename,age=:new.age,salary=:new.salary,gender=:new.gender,address=:new.address,phone\_no=:new.phone\_no,date\_of\_joining=:new.date\_of\_joining,did=:new.did,designation=:new.designation where eid=:new.eid;

Else

update employee2@san\_vin set eid=:new.eid,ename=:new.ename,age=:new.age,salary=:new.salary,gender=:new.gender,address=:new.address,phone\_no=:new.phone\_no,date\_of\_joining=:new.date\_of\_joining,did=:new.did,designation=:new.designation where eid=:new.eid;

End if;

End;

/

Insert into department values(1,’computer’,’chembur’);

Insert into employee values(1,’sanket’,20,40000,’m’,’chembur’,’9892130913’,’26/12/2015’,1,’analyst’);

Insert into employee values(2,’shripad’,52,40000,’m’,’chembur’,’9892130913’,’26/12/2015’,1,’analyst’);

Insert into employee values(3,’vinay’,53,40000,’m’,’chembur’,’9892130913’,’26/12/2015’,1,’analyst’);

Insert into department values(1,’computer’,’chembur’);

Create or replace trigger emp\_del

After delete

On employee

For each row

Begin

If :old.age<50 then

Delete from employee1@san\_shri where eid=:old.eid;

Else

Delete from employee2@san\_vin where eid=:old.eid;

End if;

End;

/

Create or replace trigger dept\_hf

After insert

On department

For each row

Begin

Insert into dept1@san\_shri values(:new.did,:new.location);

Insert into dept2@san\_vin values(:new.did,:new.dname);

End;

/

Create or replace trigger dept\_up

After update

On department

For each row

Begin

update dept1@san\_shri set did=:new.did,location=:new.location where did=:new.did;

update dept2@san\_vin set did=:new.did,dname=:new.dname where did=:new.did;

End;

/

Create or replace trigger dept\_del

After delete

On department

For each row

Begin

Delete from dept1@san\_shri where did=:old.did;

Delete from dept2@san\_vin where did=:old.did;

End;

/

Create or replace trigger proj\_rep

After insert

On project

For each row

Begin

Insert into preplica@san\_shri values(:new.pno,:new.pname,:new.budget,:new.deadline,:new.location);

End;

/

Create or replace trigger proj\_up

After update

On project

For each row

Begin

update preplica@san\_shri set pno=:new.pno,pname=:new.pname,budget=:new.budget,deadline=:new.deadline,location=:new.location where pno=:new.pno;

End;

/

Create or replace trigger proj\_del

After delete

On project

For each row

Begin

Delete from preplica@san\_shri where pno=:old.pno;

End;

/

Insert into project values(1,’just do it’,40000,’26/12/2018’,’vesit’);

Insert into project values(2,’test’,90000,’26/12/2017’,’mulund’);

Insert into project values(3,’try’,70000,’22/3/2017’,’dombivali’);

Insert into works\_on values(1,1,’2years’,’13/1/2016’);

Insert into works\_on values(1,2,’1year’,’13/9/2016’);

Create or replace trigger works\_trig

After insert

On works\_on

For each row

Declare

n varchar(5);

Begin

Select count(\*) into n from employee1@san\_shri e where e.eid=:new.eid;

If n=’0’ then

Insert into works\_on2@san\_vin values(:new.eid,:new.pno,:new.duration,:new.start\_date);

Else

Insert into works\_on1@san\_shri values(:new.eid,:new.pno,:new.duration,:new.start\_date);

End if;

End;

/

Create or replace trigger works\_up

After update

On works\_on

For each row

Declare

n varchar(5);

Begin

Select count(\*) into n from employee1@san\_shri e where e.eid=:new.eid;

If n=’0’ then

update works\_on2@san\_vin set eid=:new.eid,pno=:new.pno,duration=:new.duration,start\_date=:new.start\_date where eid=:new.eid;

Else

update works\_on1@san\_shri set eid=:new.eid,pno=:new.pno,duration=:new.duration,start\_date=:new.start\_date where eid=:new.eid;

End if;

End;

/

Create or replace trigger works\_del

After delete

On works\_on

For each row

Declare

n varchar(5);

Begin

Select count(\*) into n from works\_on1@san\_shri w where w.eid=:old.eid and w.pno=:old.pno;

If n=’0’ then

Delete from works\_on2@san\_vin w where w.eid=:old.eid and w.pno=:old.pno;

Else

Delete from works\_on1@san\_shri w where w.eid=:old.eid and w.pno=:old.pno;

End if;

End;

/

insert into payroll values(1,20,20000,19000,2);

create table emp2 as select eid,ename,age,gender,address,phone\_no from employee2@san\_vin;

Create or replace trigger pay\_up

before insert or update

On payroll

For each row

Declare

n varchar(10);

Begin

Select e.salary into n from employee e where e.eid=:new.eid;

:new.gross\_salary := n;

:new.net\_salary :=n-:new.leaves\*100-n\*:new.tax/100;

End;

/

Insert into payroll(eid,tax,leaves) values (1,20,2);

**Shripad**

Create public database link shri\_vin connect to vinay identified by vinay using 'ddbemp';

Create public database link shri\_san connect to sanket identified by sanket using 'ddbemp';

create table employee1 as select \* from employee@shri\_san;

create table dept1 as select did,location from department@shri\_san;

create table preplica as select \* from project@shri\_san;

create table works\_on1 as select w.eid,w.pno,w.duration,w.start\_date from works\_on@shri\_san w inner join employee1 e on e.eid=w.eid;

create table emp1 as select eid,salary,date\_of\_joining,did,designation from employee2@shri\_vin;

Create table fragdata(description varchar(100),shripad varchar(50),sanket varchar(50),vinay varchar(50));

Insert into fragdata values(‘1’,’1’,’1’,’1’);

Insert into payroll(eid,tax,leaves) values (1,20,2);

Create table trigdata(description varchar(100),shripad varchar(50),sanket varchar(50),vinay varchar(50));

**Vinay**

Create public database link vin\_shri connect to shripad identified by shripad using 'ddbemp';

Create public database link vin\_san connect to sanket identified by sanket using 'ddbemp';

create table employee2 as select \* from employee@vin\_san;

create table dept2 as select did,dname from department@vin\_san;

create table works\_on2 as select w.eid,w.pno,w.duration,w.start\_date from works\_on@vin\_san w inner join employee2 e on e.eid=w.eid;

Create public synonym replicapay for payroll@vin\_san;

Create or replace trigger emp\_vf

After insert

On employee2

For each row

Begin

Insert into emp1@vin\_shri values(:new.eid,:new.salary,:new.date\_of\_joining,:new.did,:new.designation);

Insert into emp2@vin\_san values(:new.eid,:new.ename,:new.age,:new.gender,:new.address,:new.phone\_no);

End;

/

Create or replace trigger emp\_up

After update

On employee2

For each row

Begin

update emp1@vin\_shri set eid=:new.eid,salary=:new.salary,date\_of\_joining=:new.date\_of\_joining,did=:new.did,designation=:new.designation where eid=:new.eid;

update emp2@vin\_san set eid=:new.eid,ename=:new.ename,age=:new.age,gender=:new.gender,address=:new.address,phone\_no=:new.phone\_no where eid=:new.eid;

End;

/

Create or replace trigger empvf\_del

After delete

On employee2

For each row

Begin

Delete from emp1@vin\_shri where eid=:old.eid;

Delete from emp2@vin\_san where eid=:old.eid;

End;

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